

**Iowa Department of Natural Resources
Title V Operating Permit**

Name of Permitted Facility: Vermeer Manufacturing Company

**Facility Location: 1210 Vermeer Drive East
Pella, Iowa 50219**

Air Quality Operating Permit Number: 99-TV-052R1

Expiration Date: April 10, 2012

EIQ Number: 92-5246

Facility File Number: 63-02-004

Responsible Official

Name: Mr. Robert Smith

Title: Vice President and Chief Legal Counsel

Mailing Address: 1210 Vermeer RD E, Pella, Iowa 50219

Phone #: 641/628-3141

Permit Contact Person for the Facility

Name: Fred Earley

Title: Environmental Engineer

Mailing Address: 1210 Vermeer RD E, Pella, Iowa 50219

Phone #: 641/621-7821

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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Abbreviations

acfm.....actual cubic feet per minute
 CFR.....Code of Federal Regulation
 CE.....control equipment
 CEM.....continuous emission monitor
 °F.....degrees Fahrenheit
 EIQ.....emissions inventory questionnaire
 EP.....emission point
 EU.....emission unit
 gr./dscf.....grains per dry standard cubic foot
 gr./100 cf.....grains per one hundred cubic feet
 IAC.....Iowa Administrative Code
 IDNR.....Iowa Department of Natural Resources
 MVAC.....motor vehicle air conditioner
 NAICS.....North American Industry Classification System
 NSPS.....new source performance standard
 ppmv.....parts per million by volume
 lb./hr.....pounds per hour
 lb./MMBtu.....pounds per million British thermal units
 SCC.....Source Classification Codes
 scfm.....standard cubic feet per minute
 SIC.....Standard Industrial Classification
 TPY.....tons per year
 USEPA.....United States Environmental Protection Agency

Pollutants

PM.....particulate matter
 PM₁₀.....particulate matter ten microns or less in diameter
 SO₂.....sulfur dioxide
 NO_x.....nitrogen oxides
 VOC.....volatile organic compound
 CO.....carbon monoxide
 HAP.....hazardous air pollutant

I. Facility Description and Equipment List

Facility Name: Vermeer Manufacturing Company

Permit Number: 99-TV-052R1

Facility Description: Construction Equipment Manufacturing (SIC 3531)

Equipment List

A. Welding

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
4.Z	4.Z	Plant 4 Welding	02-A-731
6.K	6.K-1	Plant 6 Welding	02-A-366
	6.K-2	Plant 6 Welding	
	6.K-3	Plant 6 Welding	
WELDING	WELD	Conventional Welding Units	N/A
	WELDPLS	Pulse Welding Units	N/A

B. Parts Washers

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
P.O	P.O	Two Safety Kleen Parts Washers	99-A-685
PRTWSH	PRTWSH	Parts Washers	N/A

C. Plant 4 Multi-Stage Washer System

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
4.DD	4.DD	Stage 1 Washer	99-A-1014
4.GG	4.GG	Stage 5 Washer	N/A

D. Plant 5 Multi-Stage Washer System and Powder Paint Booth Ovens

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
5.KK3	5.KK3	Stage 1 Washer	00-A-730
5.KK4	5.KK4	Multi-Stage Washer	N/A
5.KK7	5.KK7	Dry-Off Oven	00-A-731
5.KK8	5.KK8	Cure Oven	00-A-732

E. Plant 6 Multi-Stage Washer System

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
6.QQ	6.QQ	Stage 1 Washer	98-A-868-S1

F. Paint Booths

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1.AG1	1.AG	Plant 1 Finish Paint Booth	97-A-972-S4
1.AG2			97-A-973-S4
1.K	1.K	Parts Paint Booth	97-A-974-S4
2.AI1	2.AI	Plant 2 Finish Paint Booth	98-A-859-S3
2.AI2			98-A-860-S3
2.F1	2.F	Plant 2 Finish Paint Booth	98-A-075-S3
2.F2			98-A-076-S3
2.H	2.H	Plant 2 Parts Paint Booth	98-A-077-S3
3.F1	3.F	Plant 3 Finish Paint Booth	98-A-004-S3
3.F2			98-A-005-S3
3.HH	3.HH	Plant 3 Paint Booth	99-A-688-S2
3.II	3.II	Plant 3 Paint Booth	99-A-689-S2
4.F	4.F	Plant 4 Parts Paint Booth	98-A-032-S3
4.G1	4.G	Plant 4 Finish Paint Booth	98-A-033-S3
4.G2			98-A-034-S3
5.G1	5.G	Paint Booth	97-A-1030-S3
5.G2			97-A-1031-S3

F. Paint Booths (cont.)

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
5.J	5.J	Paint Booth	97-A-1033-S3
6.HH	6.HH	Paint Booth	97-A-975-S4
6.M1	6.M	Paint Booth	97-A-295-S4
6.M2			97-A-296-S4
6.N	6.N	Paint Booth	97-A-297-S3
6.S	6.S	Paint Booth	96-A-1216-S6

G. Paint Ovens

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1.J	1.J	Paint Oven	98-A-094-S1
2.I	2.I	Paint Oven	98-A-078-S1
3.B	3.B	Paint Oven	98-A-003-S1
3.JJ	3.JJ	Paint Oven	99-A-686-S1
3.MM			00-A-562
4.E	4.E	Paint Oven	98-A-031-S1
5.I	5.I	Paint Oven	97-A-1032-S1
6.F	6.F	Paint Oven	96-A-1217-S3

* The double border around certain equipment in each of these lists indicates that the enclosed equipment is grouped in a table in the Emission Point Specific Conditions section of this permit.

H. Paint Kitchens

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1.AP	1.AP	Paint Kitchen	98-A-089-S1
1.AQ	1.AQ1	Paint Kitchen	98-A-090-S1
	1.AQ2		
2.AF	2.AF1	Paint Kitchen	98-A-073-S1
	2.AF2		
2.AG	2.AG	Paint Kitchen	98-A-074-S1
3.GH	3.GH	Paint Kitchen	98-A-007-S1
3.GI	3.GI	Paint Kitchen	98-A-008-S1
3.KK	3.KK	Paint Kitchen	99-A-684
4.CD	4.CD	Paint Kitchen	98-A-029-S1

H. Paint Kitchens (Cont.)

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
4.CE	4.CE1	Paint Kitchen	98-A-030-S1
	4.CE2		
5.BB	5.BB1	Paint Kitchen	97-A-1028-S1
	5.BB2		
5.DD	5.DD	Paint Kitchen	98-A-091-S1
6.FF	6.FF	Paint Kitchen	98-A-156-S1
6.GG	6.GG	Paint Kitchen	98-A-157-S1
6.VV	6.VV	Paint Kitchen	98-A-155-S2

I. Production Engine Testing Units

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1.AH	1.AH	Production Engine Testing Unit	N/A
2.AB	2.AB	Production Engine Testing Unit	N/A
4.J	4.J	Production Engine Testing Unit	N/A
5.T	5.T	Production Engine Testing Unit	N/A
1.AU	1.AU	Production Engine Testing Unit	97-A-1107-S3
3.A1	3.A1	Production Engine Testing Unit	97-A-1100-S2
3.D1	3.D1	Production Engine Testing Unit	97-A-1102-S2
3.D2	3.D2	Production Engine Testing Unit	97-A-1103-S2
3.D3	3.D3	Production Engine Testing Unit	97-A-1104-S3
3.S	3.S	Production Engine Testing Unit	97-A-1105-S2
3.Z	3.Z	Production Engine Testing Unit	97-A-1106-S2
4.I	4.I	Production Engine Testing Unit	97-A-1108-S2
4.JJ	4.JJ	Production Engine Testing Unit	00-A-561
4.S	4.S	Production Engine Testing Unit	97-A-1109-S2
5.N	5.N	Production Engine Testing Unit	02-A-167
5.W	5.W	Production Engine Testing Unit	01-A-1227
6.D	6.D	Production Engine Testing Unit	97-A-299-S3
6.LL	6.LL	Production Engine Testing Unit	98-A-865-S2
6.MM	6.MM	Production Engine Testing Unit	98-A-866-S2
7.G	7.G	Production Engine Testing Unit	97-A-1112-S2
7.H	7.H	Production Engine Testing Unit	98-A-862-S2
7.I	7.I	Production Engine Testing Unit	98-A-863-S2
8.B	8.B	Production Engine Testing Unit	98-A-861-S2
HB.A	HB.A	Hoist Barn Production Engine Testing Unit	97-A-1113-S2
HB.B	HB.B	Production Engine Testing Unit	00-A-668

J. Heating Units

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
NGHEATERS	NGHEATERS	Natural Gas Fired Heaters	N/A
WW.A	WW.A	Waste Oil Heater	N/A

K. Storage Tanks

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
DSL TANKS	5.YD.DIESEL-T2	Yard Diesel Tank-800 gal.	N/A
	5.YD.DIESEL-T3	Yard Diesel Tank-800 gal.	N/A
	5.RD.DIESEL-T4	Road Diesel Tank-998 gal. AST	N/A
	CT.DIESEL	Diesel Tank-800 gal. AST	N/A
GASTANKS	5.GASOLINE-T1	Gasoline Tank-998 gal. AST	N/A

L. Miscellaneous Equipment

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
1.HH	1.HH	I.S. Backup Generator	N/A
1.II	1.II	Shot Blast Booth	N/A
W.E	W.E	Hook Burn-Off Oven	98-A-072-S1
W.F	W.F	Waste Solvent Still	99-A-340-S1
W.H	W.F	Waste Solvent Still	99-A-691-S1
	W.H	Aerosol Can Crusher	
W.I	W.I	Waste Management Large Burn-Off Oven	00-A-627
7.LASER	7.LASER	Plant 7 Laser Cutting	98-A-456-S1

Insignificant Activities Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
1.Metal	Shot Blast Booth
2.Metal	Plant 1 Metal Machining-Buffing and Drilling
3.Metal	Plant 2 Metal Machining-Buffing and Drilling
4.Metal	Plant 3 Metal Machining-Buffing and Drilling
5.Metal	Plant 4 Metal Machining-Buffing and Drilling
6.Metal	Plant 5 Metal Machining-Buffing and Drilling
7.Metal	Plant 6 Metal Machining-Buffing and Drilling

Insignificant Activities Equipment List (Small Unit Exemption) ⁽¹⁾

Insignificant Emission Unit Number	Insignificant Emission Unit Description
FLAME	Facility Flamecutting
FLAME-C	Facility Flamecutting-Water Table Control
LASER-BH	Facility Laser Cutting-Baghouse Control
PLASMA-BH	Facility Plasma Cutting-Baghouse Controlled
PLASMA-C	Facility Plasma Cutting-Water Table Controlled

⁽¹⁾ Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

II. Plant-Wide Conditions

Facility Name: Vermeer Manufacturing Co.
Permit Number: 99-TV-052R1

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five (5) Years
Commencing on: April 11, 2007
Ending on: April 10, 2012

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Emission Limits

Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO₂): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)²:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

² Pending approval into Iowa's State Implementation Plan (SIP), paragraph 567 IAC 23.3(2)"a" (as revised 7/21/1999) is considered *state enforceable only*.

Particulate Matter³:

The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.

Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Emission Limits: Facility-Wide

The atmospheric emissions from the facility shall not exceed the following:

Pollutant:Nitrogen Oxides (NO_x) Facility-wide limit

Emission Rate (tons/yr.):249

Authority for Requirement: Iowa DNR Construction Permit 02-A-167, (see Emission Point-Specific Conditions for other construction permit citations)

³ Paragraph 567 IAC 23.3(2)"a" (prior to 7/21/1999) is the general particulate matter emission standard currently in the Iowa SIP.

Pollutant:Volatile Organic Compound (VOC) Facility-wide limit
Emission Rate (tons/yr.):249
Authority for Requirement: Iowa DNR Construction Permit 96-A-1216-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Pollutant:Hazardous Air Pollutants (HAP) Facility-wide limit
Emission Rate (tons/yr.):Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs.
Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

The facility requested this limit, with the intent that the facility will remain an area source with regard to 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants.

Facility-Wide Operational Limits

Unless specified otherwise in the Emission Point-Specific Conditions, the following limitations and supporting regulations apply to all emission points at this facility:

Process Throughput:

- A. The sulfur content of natural gas or propane combusted in indirectly fired emission units at this facility shall not exceed 123 ppm by weight.
- B. The particulate matter content of natural gas or propane combusted in indirectly fired emission units at this facility shall not exceed 15.3 pounds per MMCF.

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

- C. Welding wire usage at this facility shall be limited to ten million pounds per rolling twelve month period.
- D. Diesel fuel and gasoline usage at this facility shall be limited to 350,000 and 31,000 gallons, respectively per twelve month rolling period.

Authority for Requirement: These limits were requested by the applicant
567 IAC 22.108(14)

Reporting & Recordkeeping

All records, as required in the following, shall be satisfactory for demonstrating compliance with all applicable emission limits.

Records shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

For Painting Operations and Other Operations That Emit HAPs and/or VOCs

A. The permittee shall maintain the following daily records:

- i. The identification and amount (gallons) of each surface coating material (paint, primer,

solvent, thinner, etc.) used in the surface coating operations for this plant. For the purpose of calculating emissions for the surface coating sources at this plant, all materials may be considered emitted on the day they are delivered to the plant or are removed from storage (i.e., the facility may take credit for solvent recycled and reused at the facility).

B. The permittee shall maintain the following monthly records:

- i. The identification, the VOC content, the HAP content, and the amount (gallons) of each surface coating material used at this facility.
- ii. The twelve (12)-month rolling total amount of surface coating material used at this facility.
- iii. The emission rate (tons) of total VOCs from the facility.
- iv. The emission rate (tons) of each individual HAP from the facility.
- v. The emission rate (tons) of all HAPs from the facility.
- vi. The 12-month rolling total of all VOCs emitted from the facility.
- vii. The 12-month rolling total of each individual HAP emitted from the facility.
- viii. The 12-month rolling total of cumulative HAPs emitted from the facility.

C. If the 12-month rolling total of VOCs emitted from the facility exceeds 220.0 tons per rolling 12-month period, the permittee shall maintain the following daily records:

- i. the total VOC emissions from the facility; and
- ii. the 365-day rolling total VOC emissions from the facility.

Daily recordkeeping/calculations for total VOC emissions shall continue until the 12-month rolling total amount of total VOC emissions drops below 220.0 tons on the last day of a month. Monthly calculation of total VOC emissions will then begin in the following month

D. If the 12-month rolling total of an individual HAP emitted from the facility exceeds 8.0 tons per rolling 12-month period, the permittee shall maintain the following daily records:

- i. the total emissions of that individual HAP (tons) from the facility; and
- ii. the 365-day rolling total emissions of that individual HAP from the facility.

Daily recordkeeping/calculations for that individual HAP's emissions shall continue until the 12-month rolling total amount of that individual HAP's emissions drops below 8.0 tons on the last day of a month. Monthly calculation of the individual HAP emissions will then begin in the following month.

E. If the 12-month rolling total of cumulative HAP emitted from the surface coating operations at this facility exceeds 20.5 tons per 12-month rolling period, the permittee shall maintain the following daily records:

- i. the total emissions of cumulative HAPs (tons) from the surface coating operations at this facility; and
- ii. the 365-day rolling total amount of cumulative HAP emissions from the surface coating operations at this facility.

Daily recordkeeping/calculations for cumulative HAP emissions shall continue until the 12-month rolling total amount of cumulative HAP emissions drops below 20.5 tons on the last day of a month. Monthly calculation of cumulative HAP emissions will then begin in the following month.

- F. The permittee may take credit for any waste VOC and HAP shipped off-site. The permittee shall record the amount of waste shipped off-site, and maintain a record from the recovery company that documents the VOC and HAP content of the waste. The credit may be subtracted from the VOC and HAP rolling totals as of the date the VOC or HAP content is received from the recovery company.
- G. The permittee shall submit reports that identify all exceedences of the 12-month rolling emission limitations for VOC and HAPs. The report shall be submitted no later than 30 days from the end of the month in which the exceedence occurred.
- H. The permittee shall retain Material Safety Data Sheets (MSDS) for all surface coating materials used at the facility, Plant Number 63-02-004.

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

For Liquid Fuels

- A. The amount of diesel fuel used in [facility production testing](#), in gallons. Calculate and record monthly and 12-month rolling totals.
- B. The amount of gasoline used in [facility production testing](#), in gallons. Calculate and record monthly and 12-month rolling totals.
- C. The sulfur content of any diesel fuel used in all production test units, in weight percent.
- D. The amount of VOC emitted by the [facility production testing](#), in tons. Calculate and record monthly and 12-month rolling totals. Emissions must be based on total gallons used and AP-42 factors for engines less than 600 hp.
- E. The amount of NOx emitted by the production test units, in tons. Calculate and record monthly and 12-month rolling totals. Emissions must be based on total gallons used and AP-42 factors for engines less than 600 hp.
- F. Calculate and record monthly and 12-month rolling totals of NOx emissions from all production test units at this source, in tons.
- G. Calculate and record monthly and 12-month rolling totals of VOC emissions from all production test units at this source, in tons.
- H. Calculate and record monthly and 12-month rolling totals of NOx emissions from all emission units at this source, in tons.
- I. Calculate and record monthly and 12-month rolling totals of VOC emissions from all emission units at this source, in tons.

Authority for Requirement: Iowa DNR Construction Permit 97-A-299-S3, (see Emission Point-Specific Conditions for other construction permit citations)
567 IAC 22.108(3)

For Gaseous Fuels

- A. The amount of natural gas used in all units, in cubic feet. Calculate and record monthly and 12-month rolling totals.

- B. The amount of propane used in all units, in gallons. Calculate and record monthly and 12-month rolling totals.
- C. The amount VOC emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.
- D. The amount NOx emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: Iowa DNR Construction Permit 98-A-094-S1, (see Emission Point-Specific Conditions for other construction permit citations)

- E. The owner/operator shall maintain [a current MSDS for propane, including its sulfur content](#).

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

For Welding Wire

Monthly welding wire usage at this facility in lb/month. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: 567 IAC 22.108(3)

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Vermeer Manufacturing Co. is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Vermeer Manufacturing Co. shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

II. Emission Point-Specific Conditions

Facility Name: Vermeer Manufacturing Co.
Permit Number: **99-TV-052R1**

Emission Point ID Number: 4.Z

Associated Equipment

Associated Emission Unit ID Number: 4.Z
Emissions Control Equipment ID Number: 4.Z
Emissions Control Equipment Description: Cartridge Filter

Emission Unit vented through this Emission Point: 4.Z
Emission Unit Description: Plant 4 Welding
Raw Material/Fuel: Weld Wire
Rated Capacity: 19 lb/hr

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the following specified levels.

Pollutant: Opacity

Emission Limit: 40 % ⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 02-A-731

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 02-A-731

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

Welding wire used by this facility shall be limited to ten million pounds per rolling twelve-month period.

Authority for Requirement: This limit was requested by the applicant.
567 IAC 22.108(14)

Reporting & Record keeping:

All records, as required below, shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly fashion and shall indicate the following:

Monthly welding wire usage at this facility in lb/month. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Characteristics

This emission point shall conform to the following conditions.

Stack Height (feet): 28

Stack Diameter (inches): 25

Stack Exhaust Flow Rate (scfm): 2,000

Stack Temperature (°F): Ambient

Discharge Style: N/A

Authority for Requirement: Iowa DNR Construction Permit 02-A-731

The temperature and flow rate is intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 6.K

Associated Equipment

Associated Emission Unit ID Number: 6.K-1, 6.K-2, and 6.K-3

Emission Units vented through this Emission Point: 6.K-1, 6.K-2, and 6.K-3

Emission Unit Description: Plant 6 Welding

Raw Material/Fuel: Weld Wire

Rated Capacity: 19 lb/hr each

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the following specified levels.

Pollutant: Opacity

Emission Limit: 40 % ⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 02-A-366

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 02-A-366

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: [Iowa DNR Construction Permit 97-A-972-S4](#), (see [Emission Point-Specific Conditions for other construction permit citations](#))

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

Welding wire used by this facility shall be limited to ten million pounds per rolling twelve-month period.

Authority for Requirement: This limit was requested by the applicant.

567 IAC 22.108(14)

Reporting & Record keeping:

All records, as required below, shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly fashion and shall indicate the following:

Monthly welding wire usage at this facility in lb/month. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point Characteristics

This emission point shall conform to the following conditions.

Stack Height (feet): 38

Stack Diameter (inches): 12

Stack Exhaust Flow Rate (scfm): 3,000

Stack Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 02-A-366

The temperature and flow rate is intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: WELDING

Associated Equipment

Associated Emission Unit ID Number: WELD, WELDPLS

Emission Units vented through this Emission Point: WELD⁽¹⁾, WELDPLS⁽¹⁾
Emission Unit Description: Conventional Welding Units, Pulse Welding Units
Raw Material/Fuel: Weld Wire
Rated Capacity: 1,140 lb/hr each

⁽¹⁾ The facility shall maintain on site a current list of all welding units and their locations. This list shall be made available to the DNR on request and shall be included with the yearly emissions inventory.

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the following specified levels.

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: [Iowa DNR Construction Permit 97-A-972-S4](#), (see [Emission Point-Specific Conditions for other construction permit citations](#))

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

Welding wire used by this facility shall be limited to ten million pounds per rolling twelve-month period.

Authority for Requirement: This limit was requested by the applicant.
567 IAC 22.108(14)

Reporting & Record keeping:

All records, as required below, shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly fashion and shall indicate the following:

Monthly welding wire usage at this facility in lb/month. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: 567 IAC 22.108(3)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: P.O

Associated Equipment

Associated Emission Unit ID Number: P.O

Emission Unit vented through this Emission Point: P.O
Emission Unit Description: Two (2) Safety Kleen Parts Washers
Raw Material/Fuel: Cold Cleaning Solvent
Rated Capacity: 1.30 lb/hr

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the following specified levels.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit: 249 tons/yr (Facility-Wide Limit)
Authority for Requirement: Iowa DNR Construction Permit 99-A-685

Emission Point Characteristics

This emission point shall conform to the following conditions.

Stack Height (feet, from the ground): 25.3
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 1,100
Stack Temperature (°F): Ambient
Discharge Style: N/A
Authority for Requirement: Iowa DNR Construction Permit 99-A-685

The temperature and flow rate is intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required?

Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required?

Yes ☐ **No** ☒

Compliance Assurance Monitoring (CAM) Plan Required?

Yes ☐ **No** ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: PRTWSH

Associated Equipment

Associated Emission Unit ID Numbers: PRTWSH

Emission Unit vented through this Emission Point: PRTWSH⁽¹⁾

Emission Unit Description: Parts Washers

Raw Material/Fuel: Cold Cleaning Solvent

Rated Capacity: 11.05 lb/hr

⁽¹⁾ The facility shall maintain on site a current list of all parts washers and their locations. This list shall be made available to the DNR on request and shall be included with the yearly emissions inventory.

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission source shall not exceed the levels specified below.

Pollutant: Volatile Organic Compound (VOC) Facility-wide limit

Emission Rate: 249 tons/yr

Authority for Requirement: See Plant-Wide Conditions

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Plant 4 Multi-Stage Washer System

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Plant 4 Multi-Stage Washer System

Table: Plant 4 Multi-Stage Washer System

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
4.DD	4.DD	Stage 1 Washer	Reagent	25 gal/hr
4.GG	4.GG	Stage 5 Washer	Reagent	25 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Table: Plant 4 Multi-Stage Washer System-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr./dscf) 567 IAC 23.3(2)"a"	PM₁₀ Limit (Lb/hr)	Authority for Requirement (Construction Permit Number)
4.DD	4.DD	40% ⁽¹⁾	0.1	3.29	99-A-1014
4.GG	4.GG	40%	0.1	N/A	N/A

- ⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Emission Point Characteristics

Emission point 4.DD shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 5,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 99-A-1014

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: See Table: Plant 5 Multi-Stage Washer System
And Powder Paint Booth Ovens-
Washers**

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Plant 5 Multi-Stage Washer System and
Powder Paint Booth-Washers

Table: Plant 5 Multi-Stage Washer System and Powder Paint Booth-Washers

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
5.KK3	5.KK3	Stage 1 Washer	Reagent	25 gal/hr
5.KK4	5.KK4	Multi-Stage Washer	Reagent	25 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Table: Plant 4 Multi-Stage Washer System and Powder Paint Booth-Washers-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr./dscf) 567 IAC 23.3(2)"a"	PM ₁₀ Limit (lb/hr)	Authority for Requirement (Construction Permit Number)
5.KK3	5.KK3	40% ⁽¹⁾	0.1	1	00-A-730
5.KK4	5.KK4	40%	0.1	N/A	N/A

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Emission Point Characteristics

Emission point 5.KK3 shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 35

Stack Opening, (inches, dia.): 16

Exhaust Flow Rate (scfm): 5,000

Exhaust Temperature (°F): 100

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 00-A-730

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

**Emission Point ID Number: See Table: Plant 5 Multi-Stage Washer System
and Powder Paint Booth Ovens-
Ovens**

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Plant 5 Multi-Stage Washer System and Powder Paint Booth Ovens

Table: Plant 5 Multi-Stage Washer System and Powder Paint Booth Ovens

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity
5.KK7	5.KK7	Dry-Off Oven	Natural Gas	2 MMBtu/hr
5.KK8	5.KK8	Cure Oven	Natural Gas	2 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Table: Plant 5 Multi-Stage Washer System and Powder Paint Booth Ovens-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr./dscf) 567 IAC 23.3(2)"a"	SOx Limit	NO ₂ Limit	VOC Limit	Authority for Requirement (Construction Permit Number)
5.KK7	5.KK7	40% ⁽¹⁾	0.1	2.5 lb/MMBtu	249 ⁽²⁾ tons/yr	249 ⁽²⁾ tons/yr	00-A-731
5.KK8	5.KK8	40% ⁽¹⁾	0.1	2.5 lb/MMBtu	249 ⁽²⁾ tons/yr	249 ⁽²⁾ tons/yr	00-A-732

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽²⁾ Plant-wide limit.

Additional Emission Limits

Pollutant: Sulfur Dioxide (SO₂)

Emission Limits: 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

A. These ovens oven shall be fired by natural gas or propane only.

Authority for Requirement: Iowa DNR Construction Permits 00-A-731 and 00-A-732

B. The maximum sulfur content for propane and natural gas is 123 ppm by weight.

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner. Records shall include the following:

- A. The amount of natural gas used in all units, in cubic feet. Calculate and record monthly and 12-month rolling totals.
- B. The amount of propane used in all units, in gallons. Calculate and record monthly and 12-month rolling totals.
- C. The amount of VOC emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.
- D. The amount of NOx emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: Iowa DNR Construction Permits 00-A-731 and 00-A-732

Emission Point Characteristics

These emission points shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 34

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 5,000

Exhaust Temperature (°F): 400

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 00-A-731 and 00-A-732.

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 6.QQ

Associated Equipment

Associated Emission Unit ID Numbers: 6.QQ

Emission Unit vented through this Emission Point: 6.QQ

Emission Unit Description: Stage 1 Washer

Raw Material/Fuel: Reagent

Rated Capacity: 25 gal/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 98-A-868-S1

⁽¹⁾ An exceedance of the indicator opacity of No Visible Emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 98-A-868-S1

Emission Point Characteristics

The emission point shall conform to the specifications listed below.

Stack Height, (ft, from the ground): 36

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 6,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 98-A-868-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the

emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Paint Booths

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Paint Booths

Emissions Control Equipment ID Number: See Table: Paint Booths

Emissions Control Equipment Description: See Table: Paint Booths

Table: Paint Booths

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Control Equipment Number	Control Equipment Description	Raw Material	Rated Capacity (gal/hr)
1.AG1	1.AG	Plant 1 Finish Paint Booth	1.AG1	Panel Filter	Paints and Solvents	15
1.AG2			1.AG2	Panel Filter		
1.K	1.K	Parts Paint Booth	1.K	Panel Filter	Paint	15
2.AI1	2.AI	Plant 2 Finish Paint Booth	2.AI1	Panel Filter	Paint	15
2.AI2			2.AI2	Panel Filter		
2.F1	2.F	Plant 2 Finish Paint Booth	2.F1	Panel Filter	Paint	15
2.F2			2.F2	Panel Filter		
2.H	2.H	Plant 2 Parts Paint Booth	2.H	Panel Filter	Paint	15
3.F1	3.F	Plant 3 Finish Paint Booth	3.F1	Panel Filter	Paint	15
3.F2			3.F2	Panel Filter		
3.HH	3.HH	Plant 3 Paint Booth	3.HH	Panel Filter	Paint	5.63
3.II	3.II	Plant 3 Paint Booth	3.II	Panel Filter	Paint	5.63
4.F	4.F	Plant 4 Parts Paint Booth	4.F	Panel Filter	Paint	15
4.G1	4.G	Plant 4 Finish Paint Booth	4.G1	Panel Filter	Paint	15
4.G2			4.G2	Panel Filter		
5.G1	5.G	Plant 5 Finish Paint Booth	5.G1	Panel Filter	Paint	15
5.G2			5.G2	Panel Filter		
5.J	5.J	Plant 5 Parts Paint Booth	5.J	Panel Filter	Paint	15
6.HH	6.HH	Plant 6 Primer Paint Booth	6.HH	Panel Filter	Paint	15
6.M1	6.M	Plant 6 Finish Paint Booth	6.M1	Panel Filter	Paint	15
6.M2			6.M2	Panel Filter		
6.N	6.N	Plant 6 Parts Paint Booth	6.N	Panel Filter	Paint	15
6.S	6.S	Plant 6 Finish Paint Booth	6.S	Panel Filter	Paint	15

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Table: Paint Booths-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr./dscf) 567 IAC 23.4(13)	PM ₁₀ Limit (lb/hr)	VOC (tons/yr)	Authority for Requirement (Construction Permit Number)
1.AG1	1.AG	40% ⁽¹⁾	0.01	0.21	249 ⁽²⁾	97-A-972- S4
1.AG2				0.21	249 ⁽²⁾	97-A-973- S4
1.K	1.K	40% ⁽¹⁾	0.01	0.68	249 ⁽²⁾	97-A-974- S4
2.AI1	2.AI	40% ⁽¹⁾	0.01	0.32	249 ⁽²⁾	98-A-859- S3
2.AI2				0.48	249 ⁽²⁾	98-A-860-S3
2.F1	2.F	40% ⁽¹⁾	0.01	0.56	249 ⁽²⁾	98-A-075- S3
2.F2				0.56	249 ⁽²⁾	98-A-076- S3
2.H	2.H	40% ⁽¹⁾	0.01	0.93	249 ⁽²⁾	98-A-077- S3
3.F1	3.F	40% ⁽¹⁾	0.01	0.56	249 ⁽²⁾	98-A-004- S3
3.F2				0.56	249 ⁽²⁾	98-A-005- S3
3.HH	3.HH	40% ⁽¹⁾	0.01	0.48	249 ⁽²⁾	99-A-688-S2
3.II	3.II	40% ⁽¹⁾	0.01	0.88	249 ⁽²⁾	99-A-689-S2
4.F	4.F	40% ⁽¹⁾	0.01	0.94	249 ⁽²⁾	98-A-032- S3
4.G1	4.G	40% ⁽¹⁾	0.01	0.21	249 ⁽²⁾	98-A-033- S3
4.G2				0.21	249 ⁽²⁾	98-A-034- S3
5.G1	5.G	40% ⁽¹⁾	0.01	0.27	249 ⁽²⁾	97-A-1030-S3
5.G2				0.27	249 ⁽²⁾	97-A-1031- S3
5.J	5.J	40% ⁽¹⁾	0.01	0.93	249 ⁽²⁾	97-A-1033- S3
6.HH	6.HH	40% ⁽¹⁾	0.01	0.28	249 ⁽²⁾	97-A-975- S4
6.M1	6.M	40% ⁽¹⁾	0.01	0.56	249 ⁽²⁾	97-A-295-S4
6.M2				0.56	249 ⁽²⁾	97-A-296-S4
6.N	6.N	40% ⁽¹⁾	0.01	0.59	249 ⁽²⁾	97-A-297-S3
6.S	6.S	40% ⁽¹⁾	0.01	0.70	249 ⁽²⁾	96-A-1216-S5

⁽¹⁾ An exceedance of the indicator opacity of "No Visible Emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

⁽²⁾ 12-month rolling total facility-wide limit.

Additional Emission Limits

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons of any single HAP and below 24.4 tons per year of any combination of HAPs per 12-month rolling period (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Booths-Emission Limits

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Recordkeeping

All records, as required by this permit, shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be legible and maintained in an orderly manner.

A. The permittee shall maintain the following daily records:

- ii. The identification and amount (gallons) of each surface coating material (paint, primer, solvent, thinner, etc.) used in the surface coating operations for this plant. For the purpose of calculating emissions for the surface coating sources at this plant, all materials may be considered emitted on the day they are delivered to the plant or are removed from storage (i.e., the facility may take credit for solvent recycled and reused at the facility).

B. The permittee shall maintain the following monthly records:

- ix. The identification, the VOC content, the HAP content, and the amount (gallons) of each surface coating material used at this facility.
- x. The twelve (12)-month rolling total amount of surface coating material used at this facility.
- xi. The emission rate (tons) of total VOCs from the facility.
- xii. The emission rate (tons) of each individual HAP from the facility.
- xiii. The emission rate (tons) of all HAPs from the facility.
- xiv. The 12-month rolling total of all VOCs emitted from the facility.
- xv. The 12-month rolling total of each individual HAP emitted from the facility.
- xvi. The 12-month rolling total of cumulative HAPs emitted from the facility.

C. If the 12-month rolling total of VOCs emitted from the facility exceeds 220.0 tons per rolling 12-month period, the permittee shall maintain the following daily records:

- iii. the total VOC emissions from the facility; and
- iv. the 365-day rolling total VOC emissions from the facility.

Daily recordkeeping/calculations for total VOC emissions shall continue until the 12-month rolling total amount of total VOC emissions drops below 220.0 tons on the last day of a month. Monthly calculation of total VOC emissions will then begin in the following month

D. If the 12-month rolling total of an individual HAP emitted from the facility exceeds 8.0 tons per rolling 12-month period, the permittee shall maintain the following daily records:

- iii. the total emissions of that individual HAP (tons) from the facility; and
- iv. the 365-day rolling total emissions of that individual HAP from the facility.

Daily recordkeeping/calculations for that individual HAP's emissions shall continue until the 12-month rolling total amount of that individual HAP's emissions drops below 8.0 tons on the last day of a month. Monthly calculation of the individual HAP emissions will then begin in the following month.

- E. If the 12-month rolling total of cumulative HAP emitted from the surface coating operations at this facility exceeds 20.5 tons per 12-month rolling period, the permittee shall maintain the following daily records:
- the total emissions of cumulative HAPs (tons) from the surface coating operations at this facility; and
 - the 365-day rolling total amount of cumulative HAP emissions from the surface coating operations at this facility.

Daily recordkeeping/calculations for cumulative HAP emissions shall continue until the 12-month rolling total amount of cumulative HAP emissions drops below 20.5 tons on the last day of a month. Monthly calculation of cumulative HAP emissions will then begin in the following month.

- F. The permittee may take credit for any waste VOC and HAP shipped off-site. The permittee shall record the amount of waste shipped off-site, and maintain a record from the recovery company that documents the VOC and HAP content of the waste. The credit may be subtracted from the VOC and HAP rolling totals as of the date the VOC or HAP content is received from the recovery company.
- G. The permittee shall submit reports that identify all exceedences of the 12-month rolling emission limitations for VOC and HAPs. The report shall be submitted no later than 30 days from the end of the month in which the exceedence occurred.
- H. The permittee shall retain Material Safety Data Sheets (MSDS) for all surface coating materials used at the facility, Plant Number 63-02-004.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Booths-Emission Limits

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Paint Booth Stacks

Table: Paint Booth Stacks			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Stack Characteristics
1.AG1	1.AG	97-A-972-S4	44	36	10,300	Ambient	Vertical Unobstructed
1.AG2		97-A-973-S4	44	36	10,300	Ambient	Vertical Unobstructed

Table: Paint Booth Stacks (Cont.)			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Stack Characteristics
1.K	1.K	97-A-974-S4	42.1	34	21,200	Ambient	Vertical Unobstructed
2.AI1	2.AI	98-A-859-S3	36.2	42.0	20,900	Ambient	Vertical Unobstructed
2.AI2		98-A-860-S3	36.2	42.0	24,000	Ambient	Vertical Unobstructed
2.F1	2.F	98-A-075-S3	46.2	42.0	22,000	Ambient	Vertical Unobstructed
2.F2		98-A-076-S3	46.2	42.0	22,000	Ambient	Vertical Unobstructed
2.H	2.H	98-A-077-S3	42.5	42.0	21,195	Ambient	Vertical Unobstructed
3.F1	3.F	98-A-004-S3	39	42.0	21,000	Ambient	Vertical Unobstructed
3.F2		98-A-005-S3	39	42.0	21,000	Ambient	Vertical Unobstructed
3.HH	3.HH	99-A-688-S2	37.5	48.0	22,000	Ambient	Vertical Unobstructed
3.II	3.II	99-A-689-S2	37.5	48.0	30,000	Ambient	Vertical Unobstructed
4.F	4.F	98-A-032-S3	36.5	42.0	28,000	Ambient	Vertical Unobstructed
4.G1	4.G	98-A-033-S3	36.5	42.0	28,000	Ambient	Vertical Unobstructed
4.G2		98-A-034-S3	36.5	42.0	28,000	Ambient	Vertical Unobstructed
5.G1	5.G	97-A-1030-S3	40.6	42.0	20,000	Ambient	Vertical Unobstructed
5.G2		97-A-1031-S3	40.6	42.0	20,000	Ambient	Vertical Unobstructed
5.J	5.J	97-A-1033-S3	43.8	42.0	20,000	Ambient	Vertical Unobstructed
6.HH	6.HH	97-A-975-S4	44.5	42.0	20,000	Ambient	Vertical Unobstructed
6.M1	6.M	97-A-295-S4	53	42.0	28,600	Ambient	Vertical Unobstructed
6.M2		97-A-296-S4	53	42.0	28,600	Ambient	Vertical Unobstructed

Table: Paint Booth Stacks (Cont.)			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Stack Characteristics
6.N	6.N	97-A-297-S3	44	36	16,000	Ambient	Vertical Unobstructed
6.S	6.S	96-A-1216-S6	44.4	42.0	10,500	Ambient	Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Booth Stacks

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☒ No ☐
Relevant requirements of CAM Plan PM/PM₁₀

Authority for Requirement: 567 IAC 22.108(3)

Vermeer Mfg. Co.
Compliance Assurance Monitoring (CAM) Plan
 Title V Operating Permit Number 99-TV-052R1

I. Background:

This plan is applicable to the following paint booths at Vermeer Manufacturing Co.:

PLANT	DESCRIPTION	TYPE	VMR ID	EMISSION Point #	IDNR Construction Permit #
1	Paint Line Booth	Side Draft	B1001	1.K	97-A-974-S4
1	Paint Whole Goods Booth	Side Draft	B1002	1.AG1,2	97-A-972-S4
					97-A-973-S4
2	Paint Whole Goods Booth	Side Draft	B2001	2.F1,2	98-A-075-S3
					98-A-076-S3
2	Paint Line Booth	Side Draft	B2002	2.H	98-A-077-S3
2	Paint Line Booth	Down Draft	B2003	2.AI1,2	98-A-859-S3
					98-A-860-S3
3	Paint Whole Goods Booth	Side Draft	B3002	3.F1,2	98-A-004-S3
					98-A-005-S3
3	Paint Line Booth	Down Draft	B3003	3.II	99-A-689-S2
3	Paint Line Booth	Down Draft	B3004	3.HH	99-A-688-S2
4	Paint Whole Goods Booth	Side Draft	B4001	4.G1,2	98-A-033-S3
					98-A-034-S3
4	Paint Line Booth	Side Draft	B4002/4003	4.F	98-A-032-S3
5	Paint Whole Goods Booth	Side Draft	B5001	5.G1,2	97-A-1030-S3
					97-A-1031-S3
5	Paint Line Booth	Side Draft	B5002	5.J	97-A-1033-S3
6	Paint Whole Goods Booth	Side Draft	B6001	6.M1,2	97-A-295-S4
					97-A-296-S4
6	Paint Whole Goods Booth	Side Draft	B6002	6.S	96-A-1216-S5
6	Paint Line Booth	Down Draft	B6003	6.HH	97-A-975-S4
6	Paint Line Booth	Down Draft	B6004	6.N	97-A-297-S3

Performance Indicator Type

- Each paint booth is equipped with a manometer which is observed and recorded daily to verify control equipment is operating within the acceptable range.

Applicable Regulations:

Opacity: 40%
 PM emission limit: 0.01 gr/dscf
 PM₁₀ emission limit: See construction permits

Control Technology
 Fabric Panel Filter

II. Monitoring Approach

1. Indicator

Daily pressure checks while the unit is in operation will be used as an indicator.

2. Measurement Approach

Each paint booth is equipped with a manometer which will be observed and the pressure value recorded at least once per day.

3. Indicator Range

- Paint booth filters shall be changed when the pressure drop reaches the action level posted on each manometer, or 2 inches of water (which ever occurs first).
- The pressure drop of each booth shall not be less than 0 (zero) or greater than 3 inches of water.
- If a pressure drop less than 0 (zero) or greater than 3 inches of water occurs, corrective action will be initiated within eight hours.

4. Performance Criteria

A pressure drop less than 0 (zero) or greater than 3 inches of water would indicate a decrease in the performance of the associated filter and indicate a potential increase of particulate emissions.

5. Verification of Operational Status

Records of pressure readings shall be kept for five years.

6. QA/QC Practices and Criteria

The acceptable operating range for each unit will be determined during annual manometer calibrations at each unit and the ranges will be posted at each manometer unit. Daily manometer readings will be recorded for each unit unless the paint booth is not in operation that day.

The maximum acceptable manometer reading posted at each manometer unit will be less than the maximum reading required for permit compliance. This will ensure a margin of safety is built into the daily inspection process to allow adequate time for filter changes to occur without exceeding permitted emission limits.

When daily manometer readings indicate the posted operating range has been reached, paint booth filters will be changed within 24 hours.

Emission Point ID Number: See Table: Paint Ovens

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Paint Ovens

Table: Paint Ovens

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Fuel	Rated Capacity (MMBtu/hr)
1.J	1.J	Paint Oven	Natural Gas	2.0
2.I	2.I	Paint Oven	Natural Gas	0.11
3.B	3.B	Paint Oven	Natural Gas	2.0
3.JJ	3.JJ	Paint Oven	Natural Gas	2.6
3.MM				
4.E	4.E	Paint Oven	Natural Gas	1.08
5.I	5.I	Paint Oven	Natural Gas	1.5
6.F	6.F	Paint Oven	Natural Gas	0.9

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Table: Paint Ovens-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr/dscf) (567 IAC 23.3(2)"a"	SO ₂ Limit (567 IAC 23.3(3)"e"	Authority for Requirement (Construction Permit Number)
1.J	1.J	40 % ⁽¹⁾	0.1	500 ppmv	98-A-094-S1
2.I	2.I	40 % ⁽¹⁾	0.1	500 ppmv	98-A-078-S1
3.B	3.B	40 % ⁽¹⁾	0.1	500 ppmv	98-A-003-S1
3.JJ	3.JJ	40 % ⁽¹⁾	0.1	500 ppmv	99-A-686-S1
3.MM		40 % ⁽¹⁾	0.1	500 ppmv	00-A-562
4.E	4.E	40 % ⁽¹⁾	0.1	500 ppmv	98-A-031-S1
5.I	5.I	40 % ⁽¹⁾	0.1	500 ppmv	97-A-1032-S1
6.F	6.F	40 % ⁽¹⁾	0.1	500 ppmv	96-A-1217-S3

⁽¹⁾ An exceedance of the indicator opacity of No Visible Emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Additional Emission Limits

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Ovens-Emission Limits

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Ovens-Emission Limits

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

Each oven shall be fired by natural gas or propane only.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Ovens-Emission Limits

Reporting & Recordkeeping:

All records, as required in the following, shall be satisfactory for demonstrating compliance with all applicable emission limits.

Records shall be kept on-site for five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

- A. The amount of natural gas used in all units, in cubic feet. Calculate and record monthly and 12-month rolling totals.
- B. The amount of propane used in all units, in gallons. Calculate and record monthly and 12-month rolling totals.
- C. The amount VOC emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.
- D. The amount NO_x emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Ovens-Emission Limits.

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Paint Oven Stacks

Table: Paint Oven Stacks			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Discharge Style
1.J	1.J	98-A-094-S1	35	12	1,076	106	Vertical Unobstructed
2.I	2.I	98-A-078-S1	34	12	1,100	150	Vertical Unobstructed
3.B	3.B	98-A-003-S1	35.5	12	860	90	Vertical Unobstructed
3.JJ	3.JJ	99-A-686-S1	35.5	10	2,500	180	Vertical Unobstructed
3.MM		00-A-562	35.5	10	2,500	180	Vertical Unobstructed
4.E	4.E	98-A-031-S1	31	12	1,210	125	Vertical Unobstructed
5.I	5.I	97-A-1032-S1	31.5	14	410	102	Vertical Unobstructed
6.F	6.F	96-A-1217-S3	28.6	11	1,500	325	Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Oven Stacks

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Paint Kitchens

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Paint Kitchens

Table: Paint Kitchens

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity (MMBtu/hr)
1.AP	1.AP	Plant 1 Paint Kitchen	Paints and Solvents	N/A
1.AQ	1.AQ1	Plant 1 Paint Kitchen	Paints and Solvents	N/A
	1.AQ2			
2.AF	2.AF1	Plant 2 Paint Kitchen	Paints and Solvents	N/A
	2.AF2			
2.AG	2.AG	Plant 2 Paint Kitchen	Paints and Solvents	N/A
3.GH	3.GH	Plant 3 Paint Kitchen	Paints and Solvents	N/A
3.GI	3.GI	Plant 3 Paint Kitchen	Paints and Solvents	N/A
3.KK	3.KK	Plant 3 Paint Kitchen	Paints and Solvents	N/A
4.CD	4.CD	Plant 4 Paint Kitchen	Paints and Solvents	N/A
4.CE	4.CE1	Plant 4 Paint Kitchen	Paints and Solvents	N/A
	4.CE2			
5.BB	5.BB1	Plant 5 Paint Kitchen	Paints and Solvents	N/A
	5.BB2			
5.DD	5.DD	Plant 5 Paint Kitchen	Paints and Solvents	N/A
6.FF	6.FF	Plant 6 Paint Kitchen	Paints and Solvents	N/A
6.GG	6.GG	Plant 6 Paint Kitchen	Paints and Solvents	N/A
6.VV	6.VV	Plant 6 Paint Kitchen	Paints and Solvents	N/A

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-wide limit).

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Kitchen Stacks

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Emission Point Characteristics

These emission points shall conform to the conditions specified in Table: Paint Kitchen Stacks

Table: Paint Kitchen Stacks			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Discharge Style
1.AP	1.AP	98-A-089-S1	41	15	3,500	Ambient	Vertical Unobstructed
1.AQ	1.AQ1	98-A-090-S1	41	20	7,000	Ambient	Vertical Unobstructed
	1.AQ2						
2.AF	2.AF1	98-A-073-S1	43	20	7,000	Ambient	Vertical Unobstructed
	2.AF2						
2.AG	2.AG	98-A-074-S1	41	20	3,500	Ambient	Vertical Unobstructed
3.GH	3.GH	98-A-007-S1	41	15	3,500	Ambient	Vertical Unobstructed
3.GI	3.GI	98-A-008-S1	41	15	3,500	Ambient	Vertical Unobstructed
3.KK	3.KK	99-A-684	42	24	7,000	Ambient	Vertical Unobstructed
4.CD	4.CD	98-A-029-S1	43	15	3,500	Ambient	Vertical Unobstructed
4.CE	4.CE1	98-A-030-S1	43	20	7,000	Ambient	Vertical Unobstructed
	4.CE2						
5.BB	5.BB1	97-A-1028-S1	43.5	20	7,000	Ambient	Vertical Unobstructed
	5.BB2						
5.DD	5.DD	98-A-091-S1	43.5	15	3,500	Ambient	Vertical Unobstructed
6.FF	6.FF	98-A-156-S1	41	15	3,500	70	Vertical Unobstructed
6.GG	6.GG	98-A-157-S1	41	15	3,500	70	Vertical Unobstructed
6.VV	6.VV	98-A-155-S2	41	15	3,500	Ambient	Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Paint Kitchen Stacks

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Production Engine Testing Units

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Production Engine Testing Units

Table: Production Engine Testing Units

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material/Fuel	Rated Capacity (MMBtu/hr)
1.AH	1.AH	Production Engine Testing Unit	Diesel/Gasoline	2.88
2.AB	2.AB	Production Engine Testing Unit	Diesel/Gasoline	1.48
4.J	4.J	Production Engine Testing Unit	Diesel/Gasoline	2.88
5.T	5.T	Production Engine Testing Unit	Diesel/Gasoline	2.88

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Plant-Wide Conditions

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Plant-Wide Conditions

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

A. The sulfur content of any number one or number two diesel fuel combusted at this facility shall not exceed 0.5% by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

B. The 12-month rolling total usage of diesel fuel in all production engine testing units shall not exceed 350,000 gallons.

C. The 12-month rolling total usage of gasoline in all production engine testing units shall not exceed 31,000 gallons.

(These limits were requested by the applicant)

Authority for Requirement: 567 IAC 22.108(14)

Reporting & Recordkeeping

All records, as required below, shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

A. The amount of diesel fuel used in all production test units, in gallons. Calculate and record monthly and 12-month rolling totals.

B. The amount of gasoline used in all production test units, in gallons. Calculate and record monthly and 12-month rolling totals.

C. The sulfur content of any diesel fuel used in all production test units, in weight percent.

D. The amount of VOC emitted by the production test units, in tons. Calculate and record monthly and 12-month rolling totals. Emissions must be based on total gallons used and AP-42 factors for engines less than 600 hp.

E. The amount of NOx emitted by the production test units, in tons. Calculate and record monthly and 12-month rolling totals. Emissions must be based on total gallons used and AP-42 factors for engines less than 600 hp.

F. Calculate and record monthly and 12-month rolling totals of NOx emissions from all production test units at this source, in tons.

G. Calculate and record monthly and 12-month rolling totals of VOC emissions from all production test units at this source, in tons.

H. Calculate and record monthly and 12-month rolling totals of NOx emissions from all emission units at this source, in tons.

I. Calculate and record monthly and 12-month rolling totals of VOC emissions from all emission units at this source, in tons.

Authority for Requirement: 567 IAC 22.108(3)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Permitted Production Engine Testing Units

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Permitted Production Engine Testing Units

Table: Permitted Production Engine Testing Units

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material/Fuel	Rated Capacity (MMBtu/hr)
1.AU	1.AU	Production Engine Testing Unit	Diesel/Gasoline	5.34
3.A1	3.A1	Production Engine Testing Unit	Diesel/Gasoline	5.34
3.D1	3.D1	Production Engine Testing Unit	Diesel/Gasoline	5.34
3.D2	3.D2	Production Engine Testing Unit	Diesel/Gasoline	5.34
3.D3	3.D3	Production Engine Testing Unit	Diesel/Gasoline	5.34
3.S	3.S	Production Engine Testing Unit	Diesel/Gasoline	5.34
3.Z	3.Z	Production Engine Testing Unit	Diesel/Gasoline	5.34
4.I	4.I	Production Engine Testing Unit	Diesel/Gasoline	5.59
4.JJ	4.JJ	Production Engine Testing Unit	Diesel/Gasoline	5.59
4.S	4.S	Production Engine Testing Unit	Diesel/Gasoline	5.59
5.N	5.N	Production Engine Testing Unit	Diesel/Gasoline	8.30
5.W	5.W	Production Engine Testing Unit	Diesel/Gasoline	2.88
6.D	6.D	Production Engine Testing Unit	Diesel/Gasoline	5.34
6.LL	6.LL	Production Engine Testing Unit	Diesel/Gasoline	8.3
6.MM	6.MM	Production Engine Testing Unit	Diesel/Gasoline	8.3
7.G	7.G	Production Engine Testing Unit	Diesel/Gasoline	5.34
7.H	7.H	Production Engine Testing Unit	Diesel/Gasoline	8.30
7.I	7.I	Production Engine Testing Unit	Diesel/Gasoline	8.30
8.B	8.B	Production Engine Testing Unit	Diesel/Gasoline	8.30
HB.A	HB.A	Production Engine Testing Unit	Diesel/Gasoline	5.34
HB.B	HB.B	Production Engine Testing Unit	Diesel/Gasoline	5.34

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

Table: Permitted Engine Test Units-Emission Limits

Emission Point Number	Associated Emission Unit Number	Opacity Limit 567 IAC 23.3(2)"d"	PM Limit (gr/dscf) 567 IAC 23.3(2)	SO₂ Limit (lb/MMBtu) 567 IAC 23.3(3)"b"	Construction Permit (Authority for Requirement)
1.AU	1.AU	40 %	0.1	2.5	97-A-1107-S3
3.A1	3.A1	40 %	0.1	2.5	97-A-1100-S2
3.D1	3.D1	40 % ⁽¹⁾	0.1	2.5	97-A-1102-S2
3.D2	3.D2	40 % ⁽¹⁾	0.1	2.5	97-A-1103-S2
3.D3	3.D3	40 % ⁽¹⁾	0.1	2.5	97-A-1104-S3
3.S	3.S	40 % ⁽¹⁾	0.1	2.5	97-A-1105-S2
3.Z	3.Z	40 % ⁽¹⁾	0.1	2.5	97-A-1106-S2
4.I	4.I	40 % ⁽¹⁾	0.1	2.5	97-A-1108-S2
4.JJ	4.JJ	40 % ⁽¹⁾	0.1	2.5	00-A-561
4.S	4.S	40 % ⁽¹⁾	0.1	2.5	97-A-1109-S2
5.N	5.N	40 % ⁽¹⁾	0.1	2.5	02-A-167
5.W	5.W	40 % ⁽¹⁾	0.1	2.5	01-A-1227
6.D	6.D	40 % ⁽¹⁾	0.1	2.5	97-A-299-S3
6.LL	6.LL	40 % ⁽¹⁾	0.1	2.5	98-A-865-S2
6.MM	6.MM	40 % ⁽¹⁾	0.1	2.5	98-A-866-S2
7.G	7.G	40 % ⁽¹⁾	0.1	2.5	97-A-1112-S2
7.H	7.H	40 % ⁽¹⁾	0.1	2.5	98-A-862-S2
7.I	7.I	40 % ⁽¹⁾	0.1	2.5	98-A-863-S2
8.B	8.B	40 % ⁽¹⁾	0.1	2.5	98-A-861-S2
HB.A	HB.A	40 % ⁽¹⁾	0.1	2.5	97-A-1113-S2
HB.B	HB.B	40 % ⁽¹⁾	0.1	2.5	00-A-668

⁽¹⁾ An exceedance of the indicator opacity of 25% will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Permitted Engine Test Units-Emission Limits

Additional Emission Limits

Pollutant: Particulate Matter (**For 3.D3 only**)

Emission Limit: 3.29 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 97-A-1104-S3

Pollutant: PM₁₀ (**For 3.D3 only**)

Emission Limit: 3.29 lb/hr

Authority for Requirement: Iowa DNR Construction Permit 97-A-1104-S3

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Permitted
Engine Test Units-Emission Limits

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Permitted
Engine Test Units-Emission Limits

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below
24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-
Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

A. The sulfur content of any number one or number two diesel fuel combusted at this facility shall not exceed 0.5% by weight.

Authority for Requirement: 567 IAC 23.3(3)

B. The 12-month rolling total usage of diesel fuel in all production engine testing units shall not exceed 350,000 gallons.

C. The 12-month rolling total usage of gasoline in all production engine testing units shall not exceed 31,000 gallons.

Authority for Requirement: These limits were requested by the applicant.
567 IAC 22.108(14)

Reporting & Recordkeeping

All records, as required below, shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

A. The amount of diesel fuel used in all production test units, in gallons. Calculate and record monthly and 12-month rolling totals.

B. The amount of gasoline used in all production test units, in gallons. Calculate and record monthly and 12-month rolling totals.

C. The sulfur content of any diesel fuel used in all production test units, in weight percent.

D. The amount of VOC emitted by the production test units, in tons. Calculate and record monthly and 12-month rolling totals. Emissions must be based on total gallons used and AP-42 factors for engines less than 600 hp.

- E. The amount of NO_x emitted by the production test units, in tons. Calculate and record monthly and 12-month rolling totals. Emissions must be based on total gallons used and AP-42 factors for engines less than 600 hp.
- F. Calculate and record monthly and 12-month rolling totals of NO_x emissions from all production test units at this source, in tons.
- G. Calculate and record monthly and 12-month rolling totals of VOC emissions from all production test units at this source, in tons.
- H. Calculate and record monthly and 12-month rolling totals of NO_x emissions from all emission units at this source, in tons.
- I. Calculate and record monthly and 12-month rolling totals of VOC emissions from all emission units at this source, in tons.

Authority for Requirement: Iowa DNR Construction Permits listed in Table: Permitted Engine Test Units-Emission Limits

- J. For 3.D3, record all fuels used and their respective sulfur contents.

Authority for Requirement: Iowa DNR Construction Permit 97-A-1104-S3

Emission Point Characteristics

These emission points shall conform to the conditions specified below.

Table: Permitted Production Engine Testing Units- Stacks			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Discharge Style
1.AU	1.AU	97-A-1107-S3	36	12	2700	759	Vertical Unobstructed
3.A1	3.A1	97-A-1100-S2	27	12	2700	759	Vertical Unobstructed
3.D1	3.D1	97-A-1102-S2	37.4	12	2700	759	Vertical Unobstructed
3.D2	3.D2	97-A-1103-S2	38.1	12	2700	759	Vertical Unobstructed
3.D3	3.D3	97-A-1104-S3	36	16	3,400	70	Vertical Unobstructed
3.S	3.S	97-A-1105-S2	37	12	2700	759	Vertical Unobstructed
3.Z	3.Z	97-A-1106-S2	30.8	12	2700	759	Vertical Unobstructed
4.I	4.I	97-A-1108-S2	30	12	3000	845	Vertical Unobstructed
4.JJ	4.JJ	00-A-561	35	12	3000	759	Vertical Unobstructed
4.S	4.S	97-A-1109-S2	36	12	3000	845	Vertical Unobstructed
5.N	5.N	02-A-167	20.5	12	3000	180	Vertical Unobstructed

Table: Permitted Production Engine Testing Units- Stacks (Cont.)

			Stack Characteristics				
Emission Point Number	Emission Unit Number	Construction Permit #	Height (feet)	Diameter (inches)	Exhaust Flowrate (scfm)	Exhaust Temp. (F)	Discharge Style
5.W	5.W	01-A-1227	34.5	12	2480	180	Vertical Unobstructed
6.D	6.D	97-A-299-S3	30.5	12	2600	759	Vertical Unobstructed
6.LL	6.LL	98-A-865-S2	38	12	3000	845	Vertical Unobstructed
6.MM	6.MM	98-A-866-S2	38	12	3000	845	Vertical Unobstructed
7.G	7.G	97-A-1112-S2	35	12	2500	759	Vertical Unobstructed
7.H	7.H	98-A-862-S2	37	12	3000	845	Vertical Unobstructed
7.I	7.I	98-A-863-S2	38	12	3000	845	Vertical Unobstructed
8.B	8.B	98-A-861-S2	27	12	3000	845	Vertical Unobstructed
HB.A	HB.A	97-A-1113-S2	38	12	2500	759	Vertical Unobstructed
HB.B	HB.B	00-A-668	43	12	3000	845	Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits specified in Table: Permitted Production Engine Testing Units-Stacks

The temperature and flow rate is intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: NG HEATERS

Associated Equipment

Associated Emission Unit ID Numbers: NG HEATERS

Emission Unit vented through this Emission Point: NG HEATERS

Emission Unit Description: Natural Gas Fired Heaters⁽¹⁾

Raw Material/Fuel: Natural Gas

Rated Capacity: 237.57 MMBtu/hr

⁽¹⁾ The facility shall maintain on site a current list of all natural gas heaters and their locations. This list shall be made available to the DNR on request and shall be included with the yearly emissions inventory.

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the following specified levels.

Pollutant: Opacity

Emission Limit: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit: 15.3 lb/MMCf

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer
Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

Pollutant: Particulate Matter

Emission Limit: 0.8 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Facility-Wide Conditions

Pollutant: Volatile Organic Compound (VOC)
Emission Rate: 249 tons/yr (Facility-Wide Limit)
Authority for Requirement: See Facility-Wide Conditions

Pollutant: Hazardous Air Pollutants (HAP)
Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)
Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

The sulfur content of natural gas or propane combusted by this source is not to exceed 123 ppm by weight.

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

Reporting & Recordkeeping:

All records, as required below, shall be kept on-site for at least five years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

- A. The amount of natural gas used in all units, in cubic feet. Calculate and record monthly and 12-month rolling totals.
- B. The amount of propane used in all units, in gallons. Calculate and record monthly and 12-month rolling totals.
- C. The amount VOC emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.
- D. The amount NOx emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.

Authority for Requirement: Iowa DNR Construction Permit 98-A-094-S1, (see Emission Point-Specific Conditions for other construction permit citations)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: WW.A

Associated Equipment

Associated Emission Unit ID Numbers: WW.A

Emission Unit vented through this Emission Point: WW.A

Emission Unit Description: Waste Oil Heater

Raw Material/Fuel: Waste Oil

Rated Capacity: 3.28 gal./hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit: 0.8 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO_x)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Facility-Wide Conditions

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Facility-Wide Conditions

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Storage Tanks

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Storage Tanks

Table: Storage Tanks

Emission Point Number	Associated Emission Unit Number	Associated Emission Unit Description	Material Stored	Capacity (gallons per tank)
DSL TANKS	5.YD. DIESEL-T2	Yard Diesel Tank-998 gal AST	Diesel Fuel	998
	5.YD. DIESEL-T3	Yard Diesel Tank-998 gal AST	Diesel Fuel	998
	5.RD. DIESEL-T4	Road Diesel Tank-998 gal AST	Diesel Fuel	998
	CT. DIESEL	Diesel Tank-800 gal AST	Diesel Fuel	800
GAS TANKS	5.GASOLINE-T1	Gasoline Tank-998 gal AST	Gasoline	998

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from each emission point shall not exceed the following specified levels.

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Facility-Wide Conditions

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: [Iowa DNR Construction Permit 97-A-972-S4](#), (see Emission Point-Specific Conditions for other construction permit citations)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 1.HH

Associated Equipment

Associated Emission Unit ID Number: 1.HH

Emission Unit vented through this Emission Point: 1.HH

Emission Unit Description: I.S. Backup Generator

Raw Material/Fuel: Diesel Fuel

Rated Capacity: 0.57 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 2.5 lb/MMBtu

Authority for Requirement: 567 IAC 23.3(3)"b"

Pollutant: Nitrogen Oxides (NO_x)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Plant-Wide Conditions

Pollutant: Volatile Organic Compound (VOC)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: See Plant-Wide Conditions

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the following operational limits and requirements.

Process Throughput:

The sulfur content of any number one or number two diesel fuel combusted at this facility shall not exceed 0.5% by weight.

Authority for Requirement: 567 IAC 23.3(3)

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 1.II

Associated Equipment

Associated Emission Unit ID Number: 1.II

Emissions Control Equipment ID Number: 1.II

Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 1.II

Emission Unit Description: Shot Blast Booth

Raw Material/Fuel: Steel Shot

Rated Capacity: 40 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/dscf

Authority for Requirement: 567 IAC 23.3(2)"a"

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: W.E

Associated Equipment

Associated Emission Unit ID Number: W.E

Emission Unit vented through this Emission Point: W.E

Emission Unit Description: Paint Hook Burn-Off Oven

Raw Material/Fuel: Natural Gas

Rated Capacity: 0.78 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %⁽¹⁾

Authority for Requirement: 567 IAC 23.4(12)"b"

Iowa DNR Construction Permit 98-A-072-S1

⁽¹⁾ No person shall allow, cause or permit the operation of an incinerator in a manner such that it produces visible air contaminants in excess of 40 percent opacity; except that visible air contaminants in excess of 60 percent opacity may be emitted for a period or period aggregating not more than 3 minutes in any 60-minute period during operation breakdown or during the cleaning of air pollution control equipment.

Pollutant: Particulate Matter

Emission Limit: 0.35 gr/dscf⁽²⁾

⁽²⁾ Adjusted to 12% CO₂

Authority for Requirement: 567 IAC 23.4(12)"a"

Iowa DNR Construction Permit 98-A-072-S1

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 98-A-072-S1

Pollutant: Volatile Organic Compound (VOC)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 98-A-072-S1

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

A. The quantity of paint incinerated in this source shall not exceed 27.5 pounds per hour.

B. This source shall be fired by natural gas or propane only.

Authority for Requirement: Iowa DNR Construction Permit 98-A-072-S1

C. The sulfur content of natural gas or propane combusted in indirectly fired emission units at this facility shall not exceed 123 ppm by weight.

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

Reporting & Recordkeeping:

Records shall be kept on-site for at least five (5) years and shall be available for inspection by the Department. Records shall be maintained in a legible and orderly manner and shall indicate the following:

A. The amount of natural gas used in all units, in cubic feet. Calculate and record monthly and 12-month rolling totals.

B. The amount of propane used in all units, in gallons. Calculate and record monthly and 12-month rolling totals.

C. The amount VOC emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.

D. The amount NOx emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.

E. The amount of paint incinerated in this unit, in pounds per hour.

Authority for Requirement: Iowa DNR Construction Permit 98-A-072-S1

Emission Point Characteristics

This emission point shall conform to the following conditions.

Stack Height (feet, from the ground): 35.2

Stack Diameter (inches): 6

Stack Exhaust Flow Rate (acfm): 1,578

Stack Temperature (°F): 1,322

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 98-A-072-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: See Table: Waste Solvent Still and Can Crusher

Associated Equipment

Associated Emission Unit ID Numbers: See Table: Waste Solvent Still and Can Crusher

Table: Waste Solvent Still and Can Crusher

Emission Point Number	Associated Emission Unit Number	Emission Unit Description	Raw Material	Rated Capacity	Construction Permit
W.F	W.F	Waste Solvent Still	Solvent	4.58 gal/hr	99-A-340-S1
W.H		Aerosol Can Crusher	Aerosol Cans	120 cans/hr	99-A-641-S1

Applicable Requirements

Emission Limits (lb/hr, gr/dscf, lb/MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the following specified levels.

Pollutant: Volatile Organic Compound (VOC)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: **Iowa DNR Construction Permits 99-A-340-S1 and 99-A-691-S1**

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): **9.4 TPY single HAP and 24.4 TPY Total HAPs (Facility-Wide Limit)**

Authority for Requirement: **Iowa DNR Construction Permits 99-A-340-S1 and 99-A-691-S1**

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the following operational limits and requirements.

Reporting & Record keeping:

All records as required by this permit shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. Records shall be legible and maintained in an orderly manner.

- A. The owner or operator shall record the amount of solvent processed and recovered in this still, in gallons, on a 12-month rolling total basis, rolled monthly.**
- B. The owner or operator shall calculate and record the facility wide VOC, single HAP and total HAP emissions, in tons, on a 12-month rolling total basis, monthly.**

Authority for Requirement: Iowa DNR Construction Permits 99-A-340-S1 and 99-A-691-S1

Emission Point Characteristics

These emission points shall conform to the conditions in Table: Waste Solvent Still and Aerosol Can Crusher-Emission Limits, below.

Table: Waste Solvent Still and Aerosol Can Crusher-Emission Point Characteristics

Emission Point Number	Emission Unit Number	Stack Height (feet, from the ground)	Stack Diameter (inches)	Stack Exhaust Flow Rate (scfm)	Stack Temperature (°F)	Discharge Style	Authority for Requirement (Construction Permit No.)
W.F	W.F	10	4	Natural Draft	Ambient	Vertical Unobstructed	99-A-340-S1
W.H	W.F	35	12	3,500	Ambient	Vertical Unobstructed	99-A-691-S1
	W.H						

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: W.I

Associated Equipment

Associated Emission Unit ID Numbers: W.I

Emission Unit vented through this Emission Point: W.I
Emission Unit Description: Waste Management Large Burn-Off Oven
Raw Material/Fuel: Natural Gas
Rated Capacity: 2.00 MMBtu/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %⁽¹⁾

Authority for Requirement: 567 IAC 23.4(12)"b"

Iowa DNR Construction Permit 00-A-627

⁽¹⁾ No person shall allow, cause or permit the operation of an incinerator in a manner such that it produces visible air contaminants in excess of 40 percent opacity; except that visible air contaminants in excess of 60 percent opacity may be emitted for a period or period aggregating not more than 3 minutes in any 60-minute period during operation breakdown or during the cleaning of air pollution control equipment.

Pollutant: Particulate Matter

Emission Limit: 0.35 gr/dscf

Authority for Requirement: 567 IAC 23.4(12)"a"

Iowa DNR Construction Permit 00-A-627

Pollutant: Sulfur Dioxide (SO₂)

Emission Limit: 500 ppmv

Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 00-A-627

Pollutant: Volatile Organic Compound (VOC)

Emission Rate: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 00-A-627

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

- A. This burn-off oven shall be fired by natural gas or propane only.
- B. The afterburner shall be operated whenever this unit is combusting waste.
- C. The quantity of paint incinerated in this unit shall not exceed 70 pounds per hour.

Authority for Requirement: Iowa DNR Construction Permit 00-A-627

- D. The sulfur content of natural gas or propane combusted in indirectly fired emission units at this facility shall not exceed 123 ppm by weight.

Authority for Requirement: Part 7b. of State of Iowa, ex rel., Iowa DNR vs. Vermeer Manufacturing Company, 99AG23542
District Court, Marion County, Law No. LACV087889

Reporting & Recordkeeping:

All records, as required by this permit, shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR. These records shall demonstrate compliance with all applicable operating limits. Records shall be legible and maintained in an orderly manner.

- A. Record the amount of natural gas used in all units, in cubic feet. Calculate and record monthly and 12-month rolling totals.
- B. Record the amount of propane used in all units, in gallons. Calculate and record monthly and 12-month rolling totals.
- C. Record the amount VOC emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.
- D. Record the amount NO_x emitted by all natural gas and propane fired units, in tons. Calculate and record monthly and 12-month rolling totals.
- E. Record the amount of paint incinerated in this unit, in pounds per hour.

Authority for Requirement: Iowa DNR Construction Permit 00-A-627

Emission Point Characteristics

This emission point shall conform to the following conditions.

Stack Height (feet, from the ground):35
Stack Opening (inches, diameter):18
Exhaust Flow Rate (scfm):952
Exhaust Temperature (°F):1,322
Discharge Style: N/A

Authority for Requirement: Iowa DNR Construction Permit 00-A-627

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 7.LASER

Associated Equipment

Associated Emission Unit ID Numbers: 7.LASER
Emissions Control Equipment ID Number: 7.LASER-BH
Emissions Control Equipment Description: Baghouse

Emission Unit vented through this Emission Point: 7.LASER
Emission Unit Description: Four (4) Single Head Laser Cutters
Raw Material/Fuel: Steel Sheet
Rated Capacity: 4,800 inches steel/cutting head/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity

Emission Limit: 40 %⁽¹⁾

Authority for Requirement: 567 IAC 23.3(2)"d"

Iowa DNR Construction Permit 98-A-456-S1

⁽¹⁾ An exceedance of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter

Emission Limit: 0.1 gr/scf

Authority for Requirement: 567 IAC 23.3(2)"a"

Iowa DNR Construction Permit 98-A-456-S1

Pollutant: Volatile Organic Compounds (VOC)

Emission Limit: 249 tons/yr (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 98-A-456-S1

Pollutant: Hazardous Air Pollutants (HAP)

Emission Rate (tons/yr.): Emissions shall remain below 9.4 tons per year of any HAP, and below 24.4 tons per year of any combination of HAPs (Facility-Wide Limit)

Authority for Requirement: Iowa DNR Construction Permit 97-A-972-S4, (see Emission Point-Specific Conditions for other construction permit citations)

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Operating Limits:

This source is comprised of four laser cutting tables.

Authority for Requirement: Iowa DNR Construction Permit 98-A-456-S1

Emission Point Characteristics

This emission point shall conform to the following conditions.

Stack Height (feet): 25

Stack Diameter (inches): 18

Stack Exhaust Flow Rate (scfm): 4,800

Stack Temperature (°F): Ambient

Discharge Style: N/A

Authority for Requirement: Iowa DNR Construction Permit 98-A-456-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐

Compliance Assurance Monitoring (CAM) Plan Required? Yes ☐ No ☒

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the

identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.

2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.

3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.

- a. Form 1.0 "Facility Identification";
- b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
- c. Form 5.0 "Title V annual emissions summary/fee"; and
- d. Part 3 "Application certification."

4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:

- a. Form 1.0 "Facility Identification";
- b. Form 5.0 "Title V annual emissions summary/fee";
- c. Part 3 "Application certification."

5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.

6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.

7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.

8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:

- a. The date, place and time of sampling or measurements
- b. The date the analyses were performed.
- c. The company or entity that performed the analyses.
- d. The analytical techniques or methods used.
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.
- g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)

2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

- a. Comply with all terms and conditions of this permit specific to each alternative scenario.
- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

- a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
- b. Compliance test methods specified in 567 Chapter 25; or
- c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

- a. Any monitoring or testing methods provided in these rules; or
- b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control

measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed

therein as a rate of emissions or as total emissions);

d. The changes are not subject to any requirement under Title IV of the Act.

e. The changes comply with all applicable requirements.

f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,

ii. The date on which the change will occur,

iii. Any change in emission as a result of that change,

iv. The pollutants emitted subject to the emissions trade

v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.

vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and

vii. Any permit term or condition no longer applicable as a result of the change.

567 IAC 22.110(1)

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

i. Correct typographical errors

ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility,

coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.

iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.

ii. The permittee's suggested draft permit

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
 - e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.
3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,
5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
- a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
 - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original

permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:
 - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
 - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
 - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
 - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
 - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
 - a. Such applicable requirements are included and are specifically identified in the permit; or
 - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
 - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

- c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
- d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1

909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2

P.O. Box 1443
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3

1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4

1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5

401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6

1023 West Madison Street
Washington, IA 52353-1623
(319) 653-2135

Polk County Planning & Development

Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health Dept.

Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

